

Serial Number:

09/037,581

ENTERED

CRF Processing Date: 7/19/2001

Edited by: A

Verified by: A

(STIC staff)

☐

Changed a file from non-ASCII to ASCII

☐

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐

Edited a format error in the Current Application Data section, specifically:

☐Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____☐

Added the mandatory heading and subheadings for "Current Application Data".

☐

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☒

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

SS

☐

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☐

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐

Inserted colons after headings/subheadings. Headings edited included:

☐

Deleted extra, invalid, headings used by an applicant, specifically:

☐Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____☐

Inserted mandatory headings, specifically: _____

☐

Corrected an obvious error in the response, specifically:

☐

Edited identifiers where upper case is used but lower case is required, or vice versa.

☐

Corrected an error in the Number of Sequences field, specifically:

☐

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____☐

Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING

DATE: 07/19/2001

PATENT APPLICATION: US/09/857,581

TIME: 08:11:10

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07192001\I857581.raw

P.S

3 <110> APPLICANT: E. I. du Pont de Nemours and Company
 5 <120> TITLE OF INVENTION: Nucleic Acid Sequences Encoding Isoflavone Synthase
 7 <130> FILE REFERENCE: BB1339 PCT
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/857,581
 C--> 10 <141> CURRENT FILING DATE: 2001-06-05
 12 <150> PRIOR APPLICATION NUMBER: 60/117,769
 13 <151> PRIOR FILING DATE: 1999-01-27
 15 <150> PRIOR APPLICATION NUMBER: 60/144,783
 16 <151> PRIOR FILING DATE: 1999-07-20
 18 <150> PRIOR APPLICATION NUMBER: 60/156,094
 19 <151> PRIOR FILING DATE: 1999-09-24
 21 <160> NUMBER OF SEQ ID NOS: 66
 23 <170> SOFTWARE: Microsoft Office 97
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 1756
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Glycine max
 30 <400> SEQUENCE: 1

31	gtaattaacc	tcactcaaac	tcgggatcac	agaaaccaac	aacagttctt	gcactgaggt	60
32	ttcacgatgt	tgctggaact	tgcaacttgg	ttgttttgtt	tagctttgtt	tctgcacttg	120
33	cgtcccacac	caagtgc aaa	atcaaaaagca	cttcgccacc	tcccaaacc	tccaagccca	180
34	aagcctcgtc	ttcccttcat	tggccacctt	cacctcttaa	aagataaact	tctccactat	240
35	gcactcatcg	atctctccaa	aaagcatggc	cccttattct	ctctctcctt	cggctccatg	300
36	ccaaccgtcg	ttgcctccac	ccctgagttg	ttcaagctct	tcctccaaac	ccacgaggca	360
37	acttccttca	acacaagggt	ccaaacctct	gccataagac	gcctcactta	cgacaactct	420
38	gtggccatgg	ttccattcgg	accttactgg	aagttcgtga	ggaagctcat	catgaacgac	480
39	cttctcaacg	ccaccaccgt	caacaagctc	aggcctttga	ggacccaaca	gatccgcaag	540
40	ttccttaggg	ttatggccca	aagcgcagag	gcccagaagc	cccttgacgt	caccgaggag	600
41	cttctcaaat	ggaccaacag	caccatctcc	atgatgatgc	tcggcgaggc	tgaggagatc	660
42	agagacatcg	ctcgcgaggt	tcttaagatc	ttcggcgaat	acagcctcac	tgacttcatc	720
43	tggcctttga	agtatctcaa	ggttgaaaag	tatgagaaga	ggattgatga	catcttgaac	780
44	aagttcgacc	ctgtcgttga	aagggtcac	aagaagcgcc	gtgagatcgt	cagaaggaga	840
45	aagaacggag	aagttgttga	gggcgaggcc	agcggcgtct	tcctcgacac	tttgcttgaa	900
46	ttcgctgagg	acgagaccat	ggagatcaaa	attaccaagg	agcaaataca	gggccttggt	960
47	gtcgactttt	tctctgcagg	gacagattcc	acagcgggtg	caacagagtg	ggcattggca	1020
48	gagctcatca	acaatcccag	ggtgttgcaa	aaggctcgtg	aggaggtcta	cagtgttggtg	1080
49	ggcaaagata	gactcgttga	cgaagttgac	actcaaaacc	ttccttacat	tagggccatt	1140
50	gtgaaggaga	cattccgaat	gcacccacca	ctcccagtg	tcaaaagaaa	gtgcacagaa	1200
51	gagtgtgaga	ttaatgggtg	tgtgatccca	gagggagcat	tggttctttt	caatgttttg	1260
52	caagtaggaa	gggaccccaa	atactgggac	agaccatcag	aattccgtcc	cgagagggtt	1320
53	ttagaaactg	gtgctgaagg	ggaagcagg	cctcttgatc	ttaggggcca	gcatttccaa	1380
54	ctcctcccat	ttgggtctgg	gaggagaatg	tgccctggtg	tcaatttggc	tacttcagga	1440
55	atggcaacac	ttcttgcatc	tcttatccaa	tgctttgacc	tgcaagtgtc	gggcctcaca	1500
56	ggacaaatat	tgaaagggtg	tgatgccaaa	gtagcatgg	aagagagagc	tggcctcaca	1560
57	gttccaagg	cacatagtct	cgtttgtgtt	ccacttgcaa	ggatcggcgt	tgcatctaaa	1620
58	ctcctttctt	aattaagata	atcatcatat	acaatagtag	tgtcttgcca	tcgcagttgc	1680
59	tttttatgta	ttcataatca	tcatttcaat	aaggtgtgac	tggtacttaa	tcaagtaatt	1740

RAW SEQUENCE LISTING

DATE: 07/19/2001

PATENT APPLICATION: US/09/857,581

TIME: 08:11:10

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07192001\I857581.raw

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63 <211> LENGTH: 521
64 <212> TYPE: PRT
65 <213> ORGANISM: Glycine max
67 <400> SEQUENCE: 2
68 Met Leu Leu Glu Leu Ala Leu Gly Leu Phe Val Leu Ala Leu Phe Leu
69 1 5 10 15
71 His Leu Arg Pro Thr Pro Ser Ala Lys Ser Lys Ala Leu Arg His Leu
72 20 25 30
74 Pro Asn Pro Pro Ser Pro Lys Pro Arg Leu Pro Phe Ile Gly His Leu
75 35 40 45
77 His Leu Leu Lys Asp Lys Leu Leu His Tyr Ala Leu Ile Asp Leu Ser
78 50 55 60
80 Lys Lys His Gly Pro Leu Phe Ser Leu Ser Phe Gly Ser Met Pro Thr
81 65 70 75 80
83 Val Val Ala Ser Thr Pro Glu Leu Phe Lys Leu Phe Leu Gln Thr His
84 85 90 95
86 Glu Ala Thr Ser Phe Asn Thr Arg Phe Gln Thr Ser Ala Ile Arg Arg
87 100 105 110
89 Leu Thr Tyr Asp Asn Ser Val Ala Met Val Pro Phe Gly Pro Tyr Trp
90 115 120 125
92 Lys Phe Val Arg Lys Leu Ile Met Asn Asp Leu Leu Asn Ala Thr Thr
93 130 135 140
95 Val Asn Lys Leu Arg Pro Leu Arg Thr Gln Gln Ile Arg Lys Phe Leu
96 145 150 155 160
98 Arg Val Met Ala Gln Ser Ala Glu Ala Gln Lys Pro Leu Asp Val Thr
99 165 170 175
101 Glu Glu Leu Leu Lys Trp Thr Asn Ser Thr Ile Ser Met Met Met Leu
102 180 185 190
104 Gly Glu Ala Glu Glu Ile Arg Asp Ile Ala Arg Glu Val Leu Lys Ile
105 195 200 205
107 Phe Gly Glu Tyr Ser Leu Thr Asp Phe Ile Trp Pro Leu Lys Tyr Leu
108 210 215 220
110 Lys Val Gly Lys Tyr Glu Lys Arg Ile Asp Asp Ile Leu Asn Lys Phe
111 225 230 235 240
113 Asp Pro Val Val Glu Arg Val Ile Lys Lys Arg Arg Glu Ile Val Arg
114 245 250 255
116 Arg Arg Lys Asn Gly Glu Val Val Glu Gly Glu Ala Ser Gly Val Phe
117 260 265 270
119 Leu Asp Thr Leu Leu Glu Phe Ala Glu Asp Glu Thr Met Glu Ile Lys
120 275 280 285
122 Ile Thr Lys Glu Gln Ile Lys Gly Leu Val Val Asp Phe Phe Ser Ala
123 290 295 300
125 Gly Thr Asp Ser Thr Ala Val Ala Thr Glu Trp Ala Leu Ala Glu Leu
126 305 310 315 320
128 Ile Asn Asn Pro Arg Val Leu Gln Lys Ala Arg Glu Glu Val Tyr Ser
129 325 330 335
131 Val Val Gly Lys Asp Arg Leu Val Asp Glu Val Asp Thr Gln Asn Leu

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RAW SEQUENCE LISTING

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Input Set : A:\Pto.amc

Output Set: N:\CRF3\07192001\I857581.raw

```

132          340          345          350
134 Pro Tyr Ile Arg Ala Ile Val Lys Glu Thr Phe Arg Met His Pro Pro
135          355          360          365
137 Leu Pro Val Val Lys Arg Lys Cys Thr Glu Glu Cys Glu Ile Asn Gly
138          370          375          380
140 Tyr Val Ile Pro Glu Gly Ala Leu Val Leu Phe Asn Val Trp Gln Val
141 385          390          395          400
143 Gly Arg Asp Pro Lys Tyr Trp Asp Arg Pro Ser Glu Phe Arg Pro Glu
144          405          410          415
146 Arg Phe Leu Glu Thr Gly Ala Glu Gly Glu Ala Gly Pro Leu Asp Leu
147          420          425          430
149 Arg Gly Gln His Phe Gln Leu Leu Pro Phe Gly Ser Gly Arg Arg Met
150          435          440          445
152 Cys Pro Gly Val Asn Leu Ala Thr Ser Gly Met Ala Thr Leu Leu Ala
153          450          455          460
155 Ser Leu Ile Gln Cys Phe Asp Leu Gln Val Leu Gly Pro Gln Gly Gln
156 465          470          475          480
158 Ile Leu Lys Gly Asp Asp Ala Lys Val Ser Met Glu Glu Arg Ala Gly
159          485          490          495
161 Leu Thr Val Pro Arg Ala His Ser Leu Val Cys Val Pro Leu Ala Arg
162          500          505          510
164 Ile Gly Val Ala Ser Lys Leu Leu Ser
165          515          520
167 <210> SEQ ID NO: 3
168 <211> LENGTH: 27
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
175 <400> SEQUENCE: 3
176 cgggatccat gcaaccggaa accgtcg 27
178 <210> SEQ ID NO: 4
179 <211> LENGTH: 32
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
186 <400> SEQUENCE: 4
187 ccggaattct caccaaacaat cacggaggta tc 32
189 <210> SEQ ID NO: 5
190 <211> LENGTH: 47
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
197 <400> SEQUENCE: 5
198 tcaaggagaa aaaaccccg atccatgttg ctggaacttg cacttgg 47
200 <210> SEQ ID NO: 6
201 <211> LENGTH: 35

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RAW SEQUENCE LISTING

DATE: 07/19/2001

PATENT APPLICATION: US/09/857,581

TIME: 08:11:10

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07192001\I857581.raw

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202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
208 <400> SEQUENCE: 6
209 ggccagtga ttgtaatacg actcactata gggcg 35
211 <210> SEQ ID NO: 7
212 <211> LENGTH: 24
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
219 <400> SEQUENCE: 7
220 aaaattagcc tcacaaaagc aaag 24
222 <210> SEQ ID NO: 8
223 <211> LENGTH: 27
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
230 <400> SEQUENCE: 8
231 atataaggat tgatagttta tagtagg 27
233 <210> SEQ ID NO: 9
234 <211> LENGTH: 1824
235 <212> TYPE: DNA
236 <213> ORGANISM: Glycine max
238 <400> SEQUENCE: 9
239 ggaaaaattag cctcacaaaa gcaaagatca aacaaaccaa ggacgagaac acgatgttgc 60
240 ttgaacttgc acttggttta ttggttttgg ctctgtttct gcacttgcgt cccacaccca 120
241 ctgcaaaatc aaaagcactt cgccatctcc caaaccacc aagcccaaag cctcgtcttc 180
242 ccttcatagg acaccttcat ctcttaaaag acaaacttct ccactacgca ctcatcgacc 240
243 tctccaaaaa acatggtccc ttattctctc tctactttgg ctccatgcca accgttggtg 300
244 cctccacacc agaattgttc aagctcttcc tccaaacgca cgaggcaact tccttcaaca 360
245 caaggttcca aacctcagcc ataagacgcc tcacctatga tagctcagtg gccatgggtc 420
246 ccttcggacc ttactggaag ttcgtgagga agctcatcat gaacgacctt cccaacgcca 480
247 ccactgtaaa caagttgagg cctttgagga cccaacagac ccgcaagttc cttaggggta 540
248 tggcccaagg cgcagaggca cagaagcccc ttgacttgac cgaggagctt ctgaaatgga 600
249 ccaacagcac catctccatg atgatgctcg gcgaggctga ggagatcaga gacatcgctc 660
250 gcgaggttct taagatcttt ggcgaaataca gcctcactga cttcatcttg ccattgaagc 720
251 atctcaaggt tggaaagtat gagaagagga tcgacgacat cttgaacaag ttcgaccctg 780
252 tcgttgaaaag ggtcatcaag aagcgccgtg agatcgtgag gaggagaaag aacggagagg 840
253 ttgttgaggg tgaggtcagc ggggttttcc ttgacacttt gcttgaattc gctgaggatg 900
254 agaccatgga gatcaaaatc accaaggacc acatcgaggg tcttggtgtc gactttttct 960
255 cgcaggaac agactccaca gcggtggcaa cagagtgggc attggcagaa ctcatcaaca 1020
256 atcctaaggt gttggaagg gctcgtgagg aggtctacag tgttggtgga aaggacagac 1080
257 ttgtggacga agttgacact caaaaccttc cttacattag agcaatcgtg aaggagacat 1140
258 tccgcatgca cccgccactc ccagtgggtc aaagaaaagt cacagaagag tgtgagatta 1200
259 atggatatgt gatcccagag ggagcattga ttctcttcaa tgtatggcaa gtaggaagag 1260
260 accccaaata ctgggacaga ccatcgaggt tcctgcctga gaggttccta gagacagggg 1320

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RAW SEQUENCE LISTING

DATE: 07/19/2001

PATENT APPLICATION: US/09/857,581

TIME: 08:11:10

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07192001\I857581.raw

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261 ctgaagggga agcagggcct cttgacttta ggggacaaca ttttcaactt ctcccatttg 1380
262 ggtctgggag gagaatgtgc cctggagtca atctggctac ttcgggaatg gcaacacttc 1440
263 ttgcatctct tattcagtg cctgacttgc aagtgtctggg tccacaagga cagatattga 1500
264 aggggtggga cgccaaagt agcatggaag agagagccgg cctcactgtt ccaagggcac 1560
265 atagtcttgc ctgtgttcca cttgcaagga tcggcggttg atctaaactc ctttcttaat 1620
266 taagatcatc atcatatata atatttactt tttgtgtgtt gataatcatc atttcaataa 1680
267 ggtctcggtc atctactttt tatgaagtat ataagccctt ccatgcacat tgtatcatct 1740
268 cccatttgtc ttcgtttgct acctaaaggca atcttttttt ttttagaatc acatcatcct 1800
269 actataaaact atcaatccctt atat                                     1824
271 <210> SEQ ID NO: 10
272 <211> LENGTH: 521
273 <212> TYPE: PRT
274 <213> ORGANISM: Glycine max
276 <400> SEQUENCE: 10
277 Met Leu Leu Glu Leu Ala Leu Gly Leu Leu Val Leu Ala Leu Phe Leu
278   1           5           10           15
280 His Leu Arg Pro Thr Pro Thr Ala Lys Ser Lys Ala Leu Arg His Leu
281           20           25           30
283 Pro Asn Pro Pro Ser Pro Lys Pro Arg Leu Pro Phe Ile Gly His Leu
284           35           40           45
286 His Leu Leu Lys Asp Lys Leu Leu His Tyr Ala Leu Ile Asp Leu Ser
287           50           55           60
289 Lys Lys His Gly Pro Leu Phe Ser Leu Tyr Phe Gly Ser Met Pro Thr
290           65           70           75           80
292 Val Val Ala Ser Thr Pro Glu Leu Phe Lys Leu Phe Leu Gln Thr His
293           85           90           95
295 Glu Ala Thr Ser Phe Asn Thr Arg Phe Gln Thr Ser Ala Ile Arg Arg
296           100          105          110
298 Leu Thr Tyr Asp Ser Ser Val Ala Met Val Pro Phe Gly Pro Tyr Trp
299           115          120          125
301 Lys Phe Val Arg Lys Leu Ile Met Asn Asp Leu Pro Asn Ala Thr Thr
302           130          135          140
304 Val Asn Lys Leu Arg Pro Leu Arg Thr Gln Gln Thr Arg Lys Phe Leu
305           145          150          155          160
307 Arg Val Met Ala Gln Gly Ala Glu Ala Gln Lys Pro Leu Asp Leu Thr
308           165          170          175
310 Glu Glu Leu Leu Lys Trp Thr Asn Ser Thr Ile Ser Met Met Met Leu
311           180          185          190
313 Gly Glu Ala Glu Glu Ile Arg Asp Ile Ala Arg Glu Val Leu Lys Ile
314           195          200          205
316 Phe Gly Glu Tyr Ser Leu Thr Asp Phe Ile Trp Pro Leu Lys His Leu
317           210          215          220
319 Lys Val Gly Lys Tyr Glu Lys Arg Ile Asp Asp Ile Leu Asn Lys Phe
320           225          230          235          240
322 Asp Pro Val Val Glu Arg Val Ile Lys Lys Arg Arg Glu Ile Val Arg
323           245          250          255
325 Arg Arg Lys Asn Gly Glu Val Val Glu Gly Glu Val Ser Gly Val Phe
326           260          265          270
328 Leu Asp Thr Leu Leu Glu Phe Ala Glu Asp Glu Thr Met Glu Ile Lys

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Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

FYI:

VERIFICATION SUMMARY

DATE: 07/19/2001

PATENT APPLICATION: US/09/857,581

TIME: 08:11:11

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07192001\I857581.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:3373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/857,581

DATE: 06/27/2001

TIME: 15:07:36

Does Not Comply
Corrected Diskette Needed

Input Set : A:\BB1339 PCT.Seq Listing.txt

Output Set: N:\CRF3\06272001\I857581.raw

3 <110> APPLICANT: E. I. du Pont de Nemours and Company
 5 <120> TITLE OF INVENTION: Nucleic Acid Sequences Encoding Isoflavone Synthase
 7 <130> FILE REFERENCE: BB1339 PCT
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/857,581
 C--> 10 <141> CURRENT FILING DATE: 2001-06-05
 12 <150> PRIOR APPLICATION NUMBER: 60/117,769
 13 <151> PRIOR FILING DATE: 1999-01-27
 15 <150> PRIOR APPLICATION NUMBER: 60/144,783
 16 <151> PRIOR FILING DATE: 1999-07-20
 18 <150> PRIOR APPLICATION NUMBER: 60/156,094
 19 <151> PRIOR FILING DATE: 1999-09-24
 21 <160> NUMBER OF SEQ ID NOS: 66
 23 <170> SOFTWARE: Microsoft Office 97

ERRORED SEQUENCES

2554 <210> SEQ ID NO: 55
 2555 <211> LENGTH: 499
 2556 <212> TYPE: PRT
 2557 <213> ORGANISM: Lupinus albus
 E--> 2559 <400> SEQUENCE: (49) SS
 2560 Phe Leu His Leu Arg Pro Thr Pro Thr Ala Lys Ser Lys Ala Leu Arg
 2561 1 5 10 15
 2563 His Leu Pro Asn Pro Pro Ser Pro Lys Pro Arg Leu Pro Phe Ile Gly
 2564 20 25 30
 2566 His Leu His Leu Leu Lys Asp Lys Leu Leu His Tyr Ala Leu Ile Asp
 2567 35 40 45
 2569 Leu Ser Lys Lys His Gly Pro Leu Phe Ser Leu Tyr Phe Gly Ser Met
 2570 50 55 60
 2572 Pro Thr Val Val Ala Ser Thr Pro Glu Leu Phe Lys Leu Phe Leu Gln
 2573 65 70 75 80
 2575 Thr His Glu Ala Thr Ser Phe Asn Thr Arg Phe Gln Thr Ser Ala Ile
 2576 85 90 95
 2578 Arg Arg Leu Thr Tyr Asp Ser Ser Val Ala Arg Val Pro Phe Gly Pro
 2579 100 105 110
 2581 Tyr Trp Lys Phe Val Arg Lys Leu Ile Met Asn Asp Leu Leu Asn Ala
 2582 115 120 125
 2584 Thr Thr Val Asn Lys Leu Arg Pro Leu Arg Thr Gln Gln Ile Arg Lys
 2585 130 135 140
 2587 Phe Leu Arg Val Met Ala Gln Gly Ala Glu Ala Gln Lys Pro Leu Asp
 2588 145 150 155 160
 2590 Leu Thr Glu Glu Leu Leu Lys Trp Thr Asn Ser Thr Ile Ser Met Met
 2591 165 170 175
 2593 Met Leu Gly Glu Ala Glu Glu Ile Arg Asp Ile Ala Arg Glu Val Leu
 2594 180 185 190
 2596 Lys Ile Phe Gly Glu Tyr Ser Leu Thr Asp Phe Ile Trp Pro Leu Lys

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/857,581

DATE: 06/27/2001

TIME: 15:07:37

Input Set : A:\BB1339 PCT Seq Listing.txt

Output Set: N:\CRF3\06272001\I857581.raw

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2597          195          200          205
2599 His Leu Lys Val Gly Lys Tyr Glu Lys Arg Ile Asp Asp Ile Leu Asn
2600          210          215          220
2602 Lys Phe Asp Pro Val Val Glu Arg Val Ile Lys Lys Arg Arg Glu Ile
2603 225          230          235          240
2605 Val Arg Arg Arg Lys Asn Gly Glu Val Val Glu Gly Glu Val Ser Gly
2606          245          250          255
2608 Val Leu Leu Asp Thr Leu Leu Glu Phe Ala Glu Asp Glu Thr Met Glu
2609          260          265          270
2611 Ile Lys Ile Thr Lys Asp His Ile Lys Gly Leu Val Val Asp Phe Phe
2612          275          280          285
2614 Ser Ala Gly Thr Asp Ser Thr Ala Val Ala Thr Glu Trp Ala Leu Ala
2615          290          295          300
2617 Glu Leu Ile Asn Asn Pro Lys Val Leu Glu Arg Ala Arg Glu Glu Val
2618 305          310          315          320
2620 Tyr Ser Val Val Gly Lys Asp Arg Leu Val Asp Glu Val Asp Thr Gln
2621          325          330          335
2623 Asn Leu Pro Tyr Ile Arg Ala Ile Val Lys Glu Thr Phe Arg Met His
2624          340          345          350
2626 Pro Pro Leu Pro Val Val Lys Arg Lys Cys Thr Glu Glu Cys Glu Ile
2627          355          360          365
2629 Asn Gly Tyr Val Ile Pro Glu Gly Ala Leu Ile Leu Phe Asn Val Trp
2630          370          375          380
2632 Gln Val Gly Arg Asp Pro Lys Tyr Trp Asp Arg Pro Ser Glu Phe Arg
2633 385          390          395          400
2635 Pro Glu Arg Phe Leu Glu Thr Glu Ala Glu Gly Glu Ala Arg Pro Leu
2636          405          410          415
2638 Asp Leu Arg Gly Gln His Phe Gln Leu Leu Pro Phe Gly Ser Gly Arg
2639          420          425          430
2641 Arg Met Cys Pro Gly Val Ile Leu Ala Thr Ser Gly Met Ala Thr Leu
2642          435          440          445
2644 Leu Ala Ser Leu Ile Gln Cys Phe Asp Leu Gln Val Leu Gly Pro Gln
2645          450          455          460
2647 Gly Gln Ile Leu Lys Gly Gly Asp Ala Lys Val Ser Met Glu Glu Arg
2648 465          470          475          480
2650 Ala Gly Leu Thr Val Pro Arg Ala His Ser Leu Val Cys Val Pro Leu
2651          485          490          495
2653 Ala Arg Ile

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/857,581

DATE: 06/27/2001

TIME: 15:07:38

Input Set : A:\BB1339 PCT Seq Listing.txt

Output Set: N:\CRF3\06272001\I857581.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:2559 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:55 differs:49
L:3373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:3463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66